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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
1503.148PC01 International application No.	International filing date (day/mon			
		1		
PCT/US03/18218 International Patent Classification (IPC)	or national classification and IPC	12 June 2003 (12.06.2003) 13 June 2002 (13.06.2002)		
IPC(7): G06T 15/00 and US Cl.: 345/66 Applicant	IPC(7): G06T 15/00 and US Cl.: 345/660			
3-DIMENSIONAL PHARMACEUTICA	ALS, INC.			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of	a total of $\underline{5}$ sheets, including	g this cover sheet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of	a total of sheets.			
3. This report contains indications relating to the following items:				
I 🔀 Basis of the report				
II Priority				
III Non-establishm	III Non-establishment of report with regard to novelty, inventive step and industrial applicability			
l		regard to povelty, inventive step or industrial		
Reasoned state	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
ļ 				
\	VI Certain documents cited			
	Certain defects in the international application			
VIII Certain observ	VIII Certain observations on the international application			
Date of submission of the demand	Date	te of completion of this report		
30 Deceเกซีสา 2003 (30.12.2003)	30 December 2004 (10.12.2004)			
Name and mailing address of the IPEA	/US Aut	thorized officer		
Mail Stop PCY, Atm: JPEA/US Commissioner for Patents	1	ike Razavi		
P.O. Box 1450 Alexandria, Virginia 22313-145		10-		
Facsimile No. (703)305-3230	305-3230			

Form PCT/IPEA/409 (cover sheet)(July 1998)



.INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application	No
DOTATION A	0210	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	冈	the description:
		pages 1-16 as originally filed
		pages NONE, filed with the demand
		pages NONE, filed with the letter of
	\boxtimes	the claims:
		pages 17-19 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand
		pages NONE, filed with the demand pages NONE, filed with the letter of
		the drawings: pages 1-8 , as originally filed
		pages NONE filed with the demand
		pages NONE , filed with the demand pages NONE , filed with the letter of
		the sequence listing part of the description:
	ш	pages NONE, as originally filed
		pages NONE, filed with the demand
		pages NONE , filed with the letter of
2.	Wit	h regard to the language, all the elements marked above were available or furnished to this Authority in the
	lang	uage in which the international application was filed, unless otherwise indicated under this item.
	The	se elements were available of furnished to this reductify in the form and the second s
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rules
		55.2 and/or 55.3).
3	. Wit	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
	Inte	contained in the international application in printed form.
ļ	<u> </u>	: I
	<u> </u>	filed together with the international application in computer readable form.
	┝	furnished subsequently to this Authority in written form.
	<u> </u>	furnished subsequently to this Authority in computer readable form.
l	L	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	_	international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
1		has been furnished.
4	i. [The amendments have resulted in the cancellation of:
		the description, pages NONE
ı		the claims, Nos. NONE
l		the drawings, sheets/ fig NONE
1	5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
1		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** lacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
1.	this re	lacement sheets which have been jurnished to the receiving Office in response to the invitation unter Article 14 die 15,000 to the port as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). The replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
1		



Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US03/18218

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims	NONE	YES	
	Claims	1	NO	
Inventive Step (IS)	Claims	NONE	YES	
mvenave sup (15)	Claims			
Industrial Applicability (IA)	Claims			
	Claims	NONE	NO	
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet				
à Company de la Company de				



International application No. PCT/US03/18218

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)	
	!
V. 2. Citations and Explanations:	
Claim 1 lacks novelty under PCT Article 33(2) as being anticipated by Jain.	

Regarding claim 1, Jain discloses a computerized method for generating mapping coordinates for a set of objects, wherein two or more objects are related by associated pairwise relationship (col. 5, lines 31-44) the method comprising the steps of: 1) specifying a set of bounds for one or more relationships (col. 10, lines 36-41, defining a display space which is used to rank images within the geometry of the space); 2) assigning initial coordinates to the objects on the map (col. 10, lines 40-41, deriving the metrics inside the display space); 3) selecting a pair of objects 4) computing a distance d between said selected object on the map; (col. 7, lines 41-51) 5) comparing said distance d between said selected objects on the map to the bounds of their associated relationship (col. 9, lines 35-46, col. 10, lines 48-50); 6) adjusting the coordinate so said selected objects on the map so that the distance d of selected objects on the map falls closer within said bounds (col. 11, lines 51-57); 7) repeating steps 3) through 6) for additional pairs of objects (col. 11, lines 54-55, recursively repeated); and 8) outputting the coordinates of one or more objects on the map (col. 13, line 60- col. 14, line

Claims 2-8 lack an inventive step under PCT Article 33(3) as being obvious over Jain in view of Cramer.

Regarding claim 2, Jain fails to disclose a) identifying a neighborhood radius r(c); b) selecting a pair of objects; c) comparing the relationship r of said selected objects to said neighborhood radius r(c), assigning a lower bound and an upper bound of said relationship r cdot c

Cramer discloses clustering using generated by using distance for similarity and the size of the and the size of the neighboring radius for clustering analysis, col. 30, lines 28-60.

It would have been obvious to include as a criteria for measuring the similarity of objects disclosed in Jain, the radius criteria as disclosed in Cramer, to allow a perceptual display of the display space to a user, with the criteria interactively derived.

Regarding claim 37. Jain discloses a pairwise relationship between two objects represents a similarity/dissimilarity between said objects. (col. 9, lines 50-52).

Regarding claim 4, Jain disclosus wherein a pairwise relationship between two objects represents a distance between said objects. (col. 9, lines 45-46)

Regarding claim 5, Cramer discloses step 6) comprises the step of: adjusting the coordinates of said selected objects on the map by a correction factor so that said distance d of said selected objects on the map falls closer within said bounds of said corresponding relationship r, if said distance d between said selected objects on the map falls outside said bounds of said

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To l	plemental Box be used when the space in any of the preceding boxes is not sufficient)
co	prresponding relationship r. (col. 30, lines 1-27)
	Regarding claim 6, Cramer discloses repeating steps 3) through 7) for several correction factors. (col. 30, lines 22-24)
(c	Regarding claim 7, Cramer discloses the value of the correction factor is reduced after each repetition of steps 3) through 7). col. 30, lines 51-60)
	Regarding claim 8, Cramer discloses steps 1) through 7) are repeated for several neighborhood radii r(c). (col. 30, lines 56-57)
	NEW CITATIONS